Translation

PATENT COOPERATION TREATY





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF15Z09/KKA	FOR FURTHER A	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/016725	International filing da	nte (day/month/year) 003 (25.12.2003)	Priority date (day/month/year) 26 December 2002 (26.12.2002)
International Patent Classification (IPC) or n G02B 6/13	<u> </u>		20 December 2002 (20.12.2002)
Applicant NIPPON TE	LEGRAPH AND	TELEPHONE COF	RPORATION
2. This REPORT consists of a total of This report is also accompaniamended and are the basis for 70.16 and Section 607 of the These annexes consist of a to 3. This report contains indications related to the section of the report of the r	3 sheets ied by ANNEXES, i.e., r this report and/or shee Administrative Instructal of ting to the following ite of opinion with regard tention under Article 35(2) wire ations supporting such	sheets of the description of the cover state containing rectifications under the PCT). sheets. consenses of the description of the PCT. constant of the properties of the pr	heet. on, claims and/or drawings which have been tions made before this Authority (see Rule ep and industrial applicability ventive step or industrial applicability;
Date of submission of the demand		Date of completion o	f this report
25 December 2003 (25.12	2.2003)		July 2004 (01.07.2004)
Name and mailing address of the IPEA/JP		Authorized officer	
Facsimile No.		Telephone No.	

INTERNATIONAL PRELIMI

Y EXAMINATION REPORT

Internatio	oplication No.
PC.	P2003/0167

I. Basis of the report 1. With regard to the elements of the international application:* the international application as originally filed the description:	
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the claims:	
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the drawings:	
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the sequence listing part of the description:	
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the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international prelim or 55.3).	der Rule 23.1(b)). inary examination (under Rule 55.2 and/
With regard to any nucleotide and/or amino acid sequence disclosed in the interpretational contained in the interpretational contained in the interpretational contained in the interpretational contained in the interpret	ternational application, the international
contained in the international application in written form.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority in written form.	
furnished subsequently to this Authority in computer readable form.	
The statement that the subsequently furnished written sequence listing does international application as filed has been furnished.	
The statement that the information recorded in computer readable form is iden been furnished.	tical to the written sequence listing has
The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig	
This report has been established as if (some of) the amendments had not been mad beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).*	e, since they have been considered to go
Replacement sheets which have been furnished to the receiving Office in response to an in this report as "originally filed" and are not annexed to this report since they do and 70.17).	not contain amendments (Rule 70.16
Any replacement sheet containing such amendments must be referred to under item 1 and a	innexed to this report.

INTERNATIONAL PRELIMI

Y EXAMINATION REPORT



tatement	-		
Novelty (N)	Claims	4, 7-10, 12-19, 21-23, 25, 26, 28-31, 33-35, 37-40, 42-57	YES
	Claims	1-3, 5, 6, 11, 20, 24, 27, 32, 36, 41	NO
Inventive step (IS)	Claims	4, 7-10, 12-19, 21-23, 25, 26, 28-31, 33-35, 37-40, 42-57	— YES
	Claims	1-3, 5, 6, 11, 20, 24, 27, 32, 36, 41	— NO
Industrial applicability (IA)	Claims	1-57	_
	Claims		— YES NO

2. Citations and explanations

Document 1: JP, 10-186184, A (FUJI XEROX CO., LTD.), 14 July 1998 (14.07.98)
Document 2: JP, 53-100848, A (OKI ELECTRIC INDUSTRY CO., LTD.), 02 September 1978 (02.09.78)

Claim 1 says "A local position inside a wave transmission medium is determined by a virtual pixel demarcated by a virtual mesh, and the spatial refractive index distribution of said wave transmission medium is created by the refractive index of each of said pixels," but said pixel demarcation method is not specified, so said pixel is arbitrarily demarcated. In light of this point, the invention of claim 1 is described in paragraphs [0013]~[0016] and Fig. 2 and so forth of document 1 cited in the ISR and on page 2, upper right column, lines 7-13 and Fig. 1 and so forth of document 2 cited in the ISR. Therefore the subject matter of claim 1 is not novel and does not involve an inventive step.

The subject matter of claims 2 and 6 is an invention of a thing specified by a setting method that sets the spatial refractive index distribution of said wave transmission medium by setting the refractive index of each of said pixels, but the thing invention means the thing itself that is ultimately obtained, so the setting method does not appear to be an item that specifies the thing invention. In light of this point, the invention of claims 2 and 6 is described in paragraphs [0013]~[0016] and Fig. 2 and so forth of document 1 cited in the ISR and on page 2, upper right column, lines 7-13 and Fig. 1 and so forth of document 2 cited in the ISR. Therefore the subject matter of claims 2 and 6 is not novel and does not involve an inventive step.

The subject matter of claims 3, 5, and 11 is described in paragraphs [0013]~[0016] and Fig. 2 and so forth of document 1 cited in the ISR and on page 2, upper right column, lines 7-13 and Fig. 1 and so forth of document 2 cited in the ISR. Also, the subject matter of claims 20, 24, 27, 32, 36, and 41 is described in paragraphs [0013]-[0016], Fig. 1, Fig. 2 and so forth of document 1 cited in the ISR, so the subject matter of claims 3, 5, 11, 20, 24, 27, 32, 36, and 41 is not novel and does not involve an inventive step.

The subject matter of claims 4, 7-10, 12-19, 21-23, 25, 26, 28-31, 33-35, 37-40, and 42-57 is not described in any of the documents cited in the ISR and appears to be non-obvious to a person skilled in the art.